

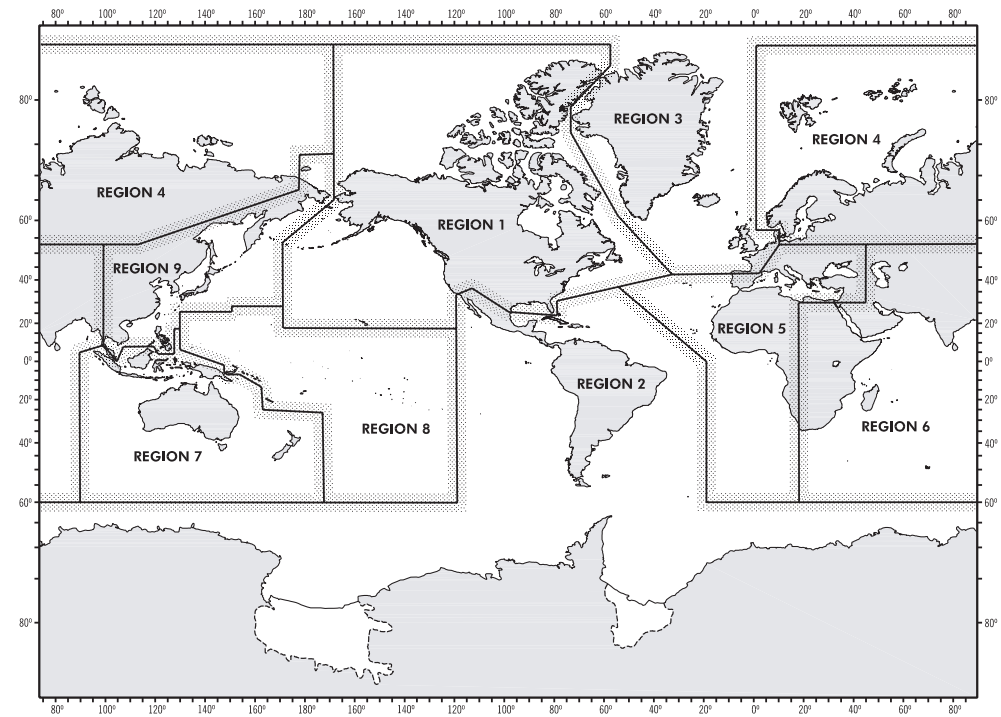
## INTRODUCTION

The National Imagery and Mapping Agency Public Sale Nautical Charts are available in nine individual catalogs, each covering a different region of the world. Each catalog contains general, ordering, and nautical products information, lists of charts available in the region, graphics displaying chart locations, a miscellaneous charts section, and a listing of chart sales agents. A free quarterly "Dates of Latest Editions" (NIMA Nautical DOLE) is also available from FAA/NACO.

The catalogs are free of charge and available from your local FAA or NOAA chart sales agent or may be ordered from the FAA/NACO Distribution Division. The catalog stock numbers, titles, and locations of each regional catalog are shown below.

<u>PRODUCT ID</u>	<u>PRODUCT TITLE</u>
DMANC1	Region 1 - United States and Canada
DMANC2	Region 2 - Central and South America and Antarctica
DMANC3	Region 3 - Western Europe, Iceland, Greenland and the Arctic
DMANC4	Region 4 - Scandinavia, Baltic and Russia
DMANC5	Region 5 - Western Africa and the Mediterranean
DMANC6	Region 6 - Indian Ocean
DMANC7	Region 7 - Australia, Indonesia and New Zealand
DMANC8	Region 8 - Oceania
DMANC9	Region 9 - East Asia
DMANPRICE	NIMA Nautical Price List
DNDOLE	NIMA Nautical DOLE

## INDEX OF REGIONS



## GENERAL INFORMATION

### Ordering Information

The Federal Aviation Administration (FAA), National Aeronautical Charting Office (NACO) is the sole distributor of public sale National Imagery and Mapping Agency (NIMA) nautical charts. Public sales of NIMA charts are available through the network of FAA and NOAA chart sales agents listed in the back of this catalog. We encourage you to patronize the local agents in your area. If the products you require are not available, your local agent may place an order for you, or you may order directly from FAA/NACO at the following address:

FAA/NACO Distribution Division, AVN-530  
National Aeronautical Charting Office  
Greenbelt, Maryland 20770  
6303 Ivy Lane, Suite 400  
Internet: <http://naco.faa.gov>

Telephone and fax orders are also accepted by the FAA/NACO Distribution Division:

Toll free within United States .....	1-800-638-8972
Telephone .....	301-436-8301
Fax.....	301-436-6829

For your convenience, customer order forms are provided in the back of this catalog for mail or fax orders. To speed the processing of your order, please provide: 1) complete product information including - product name and stock number, and 2) complete shipping information including - your name, address, and daytime telephone number.

All orders must include payment by check, money order, or credit card. Payment must be in U.S. funds, by check payable to "FAA" on a U.S. bank or by international money order. VISA, MasterCard or Discover Card are accepted. Prices include normal ground shipment. In the U.S., please allow 14 working days for delivery of individual orders. One-time orders from outside the U.S. will automatically be sent by Air Letter/Air Parcel Post. All chart sales are final unless an error is made by this office in filling the order. Please note that returned checks will result in the cancellation of your order.

We welcome payment by VISA, MasterCard or Discover credit cards. Cardholders wishing to use this service need only fill in the "Credit Card Orders" section of the Customer Order Form included in the back of this catalog.



YOUR VISA, MASTERCARD AND DISCOVER ARE WELCOMED HERE!

## NAUTICAL PRODUCTS INFORMATION

### Importance of Up-to-Date Charts

The date of a chart is of vital importance to the navigator. When charted information becomes obsolete, further use of the chart for navigation may be dangerous. Natural and artificial changes, many of them critical, are occurring constantly. It is important that navigators obtain the latest edition of a chart, and at regular intervals, hand correct their copies from changes published in the NIMA Notices to Mariners.

### Notice to Mariners

The Notice to Mariners, a free periodical, is published weekly by NIMA to advise mariners of important matters affecting navigational safety, including new hydrographic discoveries, and changes in channels and navigational aids. This periodical contains information on new nautical charts and publications, new editions, cancellations, and corrections to nautical charts, publications, and catalogs.

The Notice to Mariners also provides the mariner with chartlets, depth tabulations, light list corrections, radio navigational aid corrections, broadcast warnings, marine information, and items of general maritime interest. It occasionally includes accounts of unusual phenomena observed at sea. Distribution of the Notice to Mariners is made to U.S. Navy and U.S. Coast Guard (USCG) ships, and civil users who have requirements for it in connection with oceangoing operations.

The Notice to Mariners provides information specifically intended for updating the latest editions of nautical charts, publications, and catalogs issued or sold by FAA/NACO, NIMA, NOS, Superintendent of Documents (SOD) or USCG. Upon receipt, the Notice to Mariners should be examined for information of immediate value. Corrections to charts and publications affected should be recorded on the Chart/Publication Record Cards as described further in this section. The "Catalog Corrections" section should also be checked to assure that the latest editions of charts are on board.

To assist the navigator in maintaining an extensive chart library, NIMA publishes 5 volumes of the Summary of Corrections. These publications contain a reiterative compilation of all chart and publication corrections (except NIMA List of Lights, USCG Light Lists, and the NIMA Hydrographic Catalog) published against the current edition of each individual product originally issued in the US Notice to Mariners.

Weekly Notice to Mariners subscriptions are limited to bonafide mariners who, when submitting requests, must include a sound justification for the worldwide coverage versus local coverage. Requesters must also include their intended use of the Notice to Mar-

iners information. If applicable, the name(s) and radio call sign(s) of their vessel(s) must be listed. The Notice to Mariners is issued free of charge. However, civil users outside the United States must pay for shipping costs. Requests for Notice to Mariners should be sent to:

Defense Supply Center, Richmond  
ATTN: DSLR-JNAB  
8000 Jefferson Davis Highway  
Richmond, VA 23297-5335

Tel Toll Free: 1-800-826-0342  
Fax: (804) 279-6524  
E-Mail: [hydro@dscr.dla.mil](mailto:hydro@dscr.dla.mil)  
Internet: <http://www.dscr.dla.mil/pc9/>

Sponsorship will remain with NIMA Navy Customer Support Team.  
(DFN), Stop P-33, Tel: 703-264-3002; Fax: 703-264-3133.  
E-mail: [chdesk@nima.mil](mailto:chdesk@nima.mil)

NOTE: Most FAA/NACO Nautical Sales Agents receive the weekly Notice to Mariners.

Notice to Mariners Summary of Corrections are published by NIMA annually in five volumes. They are available from SOD as one-time orders by contacting:

Superintendent of Documents  
P.O. Box 371954  
Pittsburgh, PA 15250-1954  
Telephone ..... 202-512-1800  
Fax ..... 202-512-2250  
Internet..... <http://bookstore.gpo.gov>

NOTE: FAA/NACO and NOAA Sales Agents of NIMA Nautical products receive the Notice to Mariners Summary of Corrections.

Bonafide users of the Notice to Mariners may order back issues (up to 2 years) of the Notice to Mariners from the FAA/NACO Distribution Division free of charge. Back issues should be ordered by the FAA Stock Number; e.g., 9752 for the last issue of 1997, 9802 for the second issue of 1998, etc.

A local Notice to Mariners is published in each Coast Guard District by the USCG. This Notice to Mariners includes information concerning changes in aids to navigation and other marine information affecting the safety of navigation within the limits of each district. The Local Notice is of paramount interest to small-craft operators as this may be the only source of corrections affecting shallow draft navigable waterways. The USCG Local Notice to Mariners may be obtained free of charge from each District's Local Office or via the Navigation Information Service (NIS) Bulletin Board Service at: Tel: 703-313-5900; Fax: 703-313-5920.

### **Dates of Latest Editions**

A quarterly publication, "Dates of Latest Editions - National Imagery and Mapping Agency Public Sale Nautical Charts," (FAA Stock Number DND0LE), is available free of charge from FAA/NACO. Issued in January, April, July, and October, it provides a complete listing of NIMA-produced nautical charts available for public sale. New and revised charts are reported every quarter. Information provided includes chart numbers, edition numbers, edition dates, and special notices (when applicable). It also contains supplemental information on FAA authorized nautical chart sales agents. All information is cumulative. This means that only the latest quarterly publication is needed to have current product information. It should be used with the Notice to Mariners to correct the regional catalogs. The "Dates of Latest Editions" is also available from FAA chart sales agents. This publication is free of charge and can be ordered from the FAA/NACO Distribution Division as a one-time order or as a standing order (subscription). It is also available on the FAA/NACO web-site at <http://naco.faa.gov>.

### **Correction of Charts Prior to Issue**

Charts are no longer corrected at NIMA Depot Operations. Charts with a print date prior to June 28, 1975, have been corrected through Notice to Mariners No. 26/75. Charts printed after June 28, 1975 are corrected through the print date shown in the lower left margin of the chart.

## **NIMA MARITIME SAFETY INFORMATION DIVISION**

The National Imagery and Mapping Agency (NIMA) Maritime Safety Information Center provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day. The Marine Navigation Department Website can be accessed via the NIMA Homepage ([www.nima.mil](http://www.nima.mil)) under the Maps & Geodata icon or directly at <http://pollux.nss.nima.mil>.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NIMA Hydrographic Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NIMA List of Lights, USCG Light Lists, WorldWide Navigational Warning service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), AntiShipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the US Notice to Mariners, US Chart No 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, Radar Navigation Manual, and the Maneuvering Board Manual.

The Marine Navigation Department Website can be accessed via the NIMA Homepage ([www.nima.mil](http://www.nima.mil)) under the Safety of Navigation icon or directly at <http://pollux.nss.nima.mil>. The Maritime Safety Information Center (direct modem connection) is also web-server based and can be accessed through commercial telephone lines (including cellular links) and satellite links (including INMARSAT) by any customer using an Internet browser software package, modem, and direct dial-up connection to 301-227-4444. The customer does not need an Internet Service Provider (ISP) or an approved user logon id. Any questions concerning the Marine Navigation Department Website or NAVINFONET Service (to include details on minimum hardware and software requirements and instructions on how to direct dial-in connect) may be obtained free of charge by contacting:

NIMA Maritime Safety Information Division  
ATTN: NSS Staff, MailStop D-44  
4600 Sangamore Road  
Bethesda, Maryland 20816-5003

Tel: 301-227-3296

Fax: 301-227-4211

E-mail: [NAVINFONET@nima.mil](mailto:NAVINFONET@nima.mil) or [webmaster\\_nss@nima.mil](mailto:webmaster_nss@nima.mil)

## Chart Corrections

Users should refer corrections, additions, and comments for improving NIMA nautical charts to:

Director, National Imagery and Mapping Agency  
ATTN: ES, Stop L-88  
4600 Sangamore Rd.  
Bethesda, Maryland 20816-5003  
Internet: <http://www.nima.mil>  
or  
NIMA Operational Help Desk at (800) 455-0899

## Chart Numbering System

The numbering of charts produced and issued by NIMA and NOS is based on a system which generally identifies a chart through a geographic location. The basis of assignment of numbers to charts is as follows:

**One-Digit Number (1-9):** Charts which have no scale connotation, such as chart symbols.

**Two-and Three-Digit Numbers (10-999):** Small-scale charts which depict the major portion of an ocean basin or large area with the first digit identifying the specific basin. Exceptions include Standard Time Zone, Geophysical Data, and some plotting charts.

**Four-Digit Numbers (5000-9999):** Special purpose, planning, and plotting charts.

**Five-Digit Numbers (11000-99999):** Standard nautical charts. These charts cover portions of the coastline rather than significant portions of ocean basins. The first of the five digits indicates the region in which the chart is located. Within each region, the geographic subregions (first and second digits) are numbered counterclockwise around the continents. Within each subregion, the individual charts are numbered (last three digits) counterclockwise along the coasts.

## Chart Terms

**New Chart:** When a chart is announced for use for the first time, it is called a First Edition.

**New Edition:** When a chart has numerous corrections, or new information is too extensive to promulgate through Notice to Mariners, a new edition of the chart

is issued. The previous edition automatically becomes obsolete and must be destroyed. On each subsequent new edition, the edition identification information in the lower left margin of the chart is changed to reflect the new edition number and date. The new edition contains corrections promulgated by the Notice to Mariners. A new edition must not be used until it is announced in the Notice to Mariners. Applicable chart corrections are provided at the time of announcement. The chart user is responsible for keeping the announced chart current. Users who order previously announced charts or publications should obtain any pertinent corrections from the Notice to Mariners Summary of Corrections that are described in this section.

**Chart Scale:** The scale of a chart refers to a measurement of distance. A chart covering a relatively large area is called a small-scale chart and one covering a relatively small area is called a large scale chart. Scale may vary from 1:1,200 for harbor plans to 1:20,000,000 for world charts. Most nautical charts contain a reference to a natural scale, expressed as a ratio; e.g., 1:25,000 indicating that one unit of the chart represents 25,000 units of the Earth's surface. Another way of expressing scale, called numerical scale, is in inches equivalent to the nautical mile. To calculate an inch to a nautical mile, divide the scale into 72,913.24.

SCALE EQUIVALENTS TABLE

At Scale 1:	Inches to One Nautical Mile	At Scale 1:	Inches to One Nautical Mile	At Scale 1:	Inches to One Nautical Mile
1,200	60.76	24,000	3.04	150,000	0.49
2,400	30.38	25,000	2.92	200,000	0.36
4,800	15.19	30,000	2.43	250,000	0.29
5,000	14.58	35,000	2.08	300,000	0.24
10,000	7.29	40,000	1.82	400,000	0.18
11,000	6.63	50,000	1.46	500,000	0.15
12,000	6.08	55,000	1.33	1,000,000	0.07
12,500	5.83	60,000	1.22	1,200,000	0.06
15,000	4.86	72,000	1.01	2,000,000	0.04
17,000	4.29	75,000	0.97	3,000,000	0.02
20,000	3.65	80,000	0.91	5,000,000	0.01
22,000	3.31	100,000	0.73		

## 1. Chart/ Publication Correction Record Card System

### a. Introduction

The Chart/ Publication Correction Record card is NIMA Form No. 8660/9, FAA Stock Number 86609. Holders of navigational material should ensure that a card record is maintained for Notice to Mariners corrections for each chart and publication carried on board ship. Actual corrections must be made to charts and publications prior to use for navigational purposes. Charts and publications not immediately required may be updated as needed.

### b. Establishing a Correction Record Card System

Prepare a card for each chart and publication carried on board. Insert the following information as shown in this example:

Chart (24504) or Publication (PUB 150)

Edition No./ Date (7/June 1995)

Price (\$15.65)

Latest Notice to Mariners through which chart is corrected (24/95)

Title of Chart or Publication. If title is too long, use an abbreviated descriptive title.

### c. Maintaining the Correction Record Cards

When cards are established for the charts and publications, the following procedures should be followed.

- (1) For each correction applicable to charts and publications carried on board, the Notice to Mariners number and year should be entered on the card for that chart or publication. Use a separate line for each entry.
- (2) Preliminary and temporary chart corrections contained in the Notice to Mariners are flagged by a "P" or "T" and should be entered on the Chart/ Publication Correction Card with a "P" or "T".
- (3) After all entries have been made on the cards, the applicable corrections from the Notice to Mariners should be plotted on those charts which are in active use. Entries are to be made on the corresponding correction cards to show the date the hand correction was made to the chart and the initials of the

person who made the correction. The commanding officer, master of the ship, or navigator shall determine which charts are to be maintained.

**NOTE:** When correcting charts that have accumulated numerous corrections, it is more practical to make the latest correction first and work backwards, as late corrections may cancel or alter earlier corrections.

(4) Upon receipt of a new chart or a new edition, a new card should be made so that the card will show only those corrections (including temporary changes) that have been published since the date the chart was corrected by NIMA. Temporary changes are not incorporated in new editions of charts and must be carried forward from old editions. The chart must be announced in the Notice to Mariners before it can be used.

(5) A card must be maintained for each nautical chart and publication carried on board. Separate cards are not required for multiple copies of the same chart, provided all Notice to Mariners correction information is applied. To preclude correction omissions, all copies of a particular chart should be simultaneously corrected. See paragraph below for publication correction procedures.

## 2. Chart Correction Techniques

a. After a little practice on obsolete charts, corrections to printed information on nautical charts can be made neatly and quickly. These corrections become a permanent part of the chart. Therefore, they should be made in ink so they will not be erased accidentally when the chart is cleaned after use. However, temporary corrections affecting aids to navigation should be made in pencil. The only instruments necessary to correct charts are several high-quality ballpoint pens or central-feed technical fountain pens, a variety of stick or pencil type erasers, and an erasing shield. Use of the Chart Correction Template (Available from GPO) may be helpful.

b. Frequently, the first step in correcting a chart is to erase that part of the charted information that will be changed. To erase an inked line, place the chart on a smooth surface. The top of a chart table is well suited for this, but if an improvised surface is needed, place the areas to be erased over a large, smooth, hard surface. Erase in a back-and-forth motion with an abrasive eraser. This will remove most of the ink. To preserve the quality of the paper's surface, remove the remainder of the ink with a nonabrasive eraser. A sharp penknife or razor blade used to erase can be a valuable tool in the hands of an experienced draftsman, but poor handling of a knife can quickly ruin a chart. Rubbing an erased surface with a burnishing tool or a thumb nail may improve the inking qualities. The ink from a conventional lettering

or drafting pen tends to feather to a degree depending on the condition of the erased surface. Normally, a ballpoint pen with a fine point feathers less and eliminates the possibility of ink smears. Another advantage of the ballpoint is the variety of colors. Although black is the principal color used in chart correction work, other colors such as green, purple, or blue may be needed occasionally. Red should never be used. "White out" correction fluid may be used as an alternative to erasing outdated information.

c. Apply hand corrections as indicated above. The year and number of each Notice to Mariners from which the corrections have been made should be entered in ink at the lower left margin of the chart; "1998 - 24, 27, 50". Temporary changes should be made in pencil.

d. Chartlet corrections (pasters) appearing in the Notice to Mariners are to be affixed to the charts in the proper area. Any outstanding temporary changes must be transferred to the chartlet. Temporary changes in aids to navigation are generally not plotted by NIMA.

### **3. Correction of Sailing Directions, Coast Pilots, and List of Lights**

a. Sailing Directions are issued with corrective information through the date shown in the preface. Upon receipt of the publication, a Chart/Publication Correction Record Card should be prepared and maintained as for charts. Prior to using, the Sailing Directions should be corrected by using the information recorded on the correction record card. An alternative method of keeping a record of Notice to Mariners affecting Sailing Directions is to maintain the "Record of Applicable Notice to Mariners paragraph" for each volume in lieu of the Chart/ Publication Correction Record card. The suggested use of these forms is explained and included with new editions of Sailing Directions. Questions on Sailing Directions may be directed by e-mail to: (SDPUBS@nima.mil).

b. Coast Pilots are corrected through Notice to Mariners shown on the title page and should not be used without reference to the Notice to Mariners issued subsequent to those dates. Changes and corrections to the publications that affect the safety of navigation reported to NOAA/NOS in the interim period between new editions are published in the USCG Local Notice to Mariners and in the weekly NIMA Notice to Mariners. Chart/Publication Correction Record Cards for Coast Pilots should be prepared and maintained similarly to the cards for Sailing Directions.

c. Lists of Lights are corrected to the publication date shown on the title page and in the preface. Corrections subsequent to the correction date of the List of Lights

should be obtained from the Notice to Mariners. Chart/Publication Correction Record cards should be prepared and maintained for this publication as all other publications held on board ship.

### **4. Correction of Regional Catalogs**

a. To correct the Regional Catalogs, begin by locating the "Catalog Corrections" section of each NIMA Notice to Mariners subsequent to the cutoff date published in the Regional Catalogs. This section will list all recent catalog corrections.

b. Using the "Catalog Corrections" section, turn to the appropriate catalog region(s) in which corrections occur. Post pen-and-ink corrections to the affected page(s) by marking through the information that differs from the information listed in the "Catalog Corrections" section. Then write the correct information as close as possible to the incorrect information being replaced. Where information is only to be deleted, simply mark through the existing information. Annotating the appropriate Notice to Mariners number in the catalog page margins serves as a future reference.

### **5. Charts Under Red Lights**

Red has been selected as the preferred color for night lighting. The red color effect may be attained by use of red light bulbs, red shields or filters, or by use of red goggles. The use of red light seriously affects the legibility of charts as the buff, orange, and red colors are degraded. The problem has been partially corrected through the use on charts of gray, magenta, purple, and blue. The colors appear as different shades, not as different colors, under the red light. Caution should be exercised in using charts under red light. If there are any vital features shown on the charts in red, orange, and yellow colors, it is advisable to highlight them in some color, such as blue, green, brown, or purple that will show under red light. The use of red ink or red pencil should be avoided.

## NAUTICAL CHARTS AND PUBLICATIONS AVAILABLE FROM OTHER AGENCIES

### NOAA Nautical Charts and Publications

The Federal Aviation Administration (FAA), National Aeronautical Charting Office (NACO) publishes for the National Oceanic and Atmospheric Administration (NOAA) free regional catalogs covering the Atlantic and Gulf Coasts, Pacific Coast, Alaska, and the Great Lakes waterways of the US. Requests may be sent to:

FAA, National Aeronautical Charting Office  
Distribution Division, AVN-530  
6303 Ivy Lane, Suite 400  
Greenbelt, Maryland 20770  
Toll free within United States ..... 1-800-638-8972  
Telephone: ..... 301-436-8301  
Fax: ..... 301-436-6829

### NIMA and Miscellaneous Publications

ALL NIMA public sale navigations publications are now only available from the SOD. Other Miscellaneous navigational products such as U.S. Coast Guard publications; e.g., Light Lists and Navigation Rules (International-Inland); and Air and Nautical Almanacs are also available from:

Superintendent of Documents  
P.O. Box 371954  
Pittsburgh, PA 15250-1954  
Telephone ..... 202-512-1800  
Fax: ..... 202-512-2250  
Internet: ..... <http://bookstore.gpo.gov>

### Canadian Nautical Charts and Publications

The Department of Fisheries and Oceans publishes free regional catalogs covering the East and West Coasts, Great Lakes, and Arctic waterways of Canada. Requests may be sent to:

Fisheries and Oceans Canada  
Hydrographic Chart Distribution Office  
1675 Russell Road  
P.O. Box 8080  
Ottawa, Ontario K1G 3H6

Canada  
Telephone ..... 613-998-4931  
Fax ..... 613-998-1217  
E-Mail: ..... [chs\\_sales@dfo-mpo.gc.ca](mailto:chs_sales@dfo-mpo.gc.ca)  
Internet: ..... <http://www.charts.gc.ca>

### British Admiralty Charts and Publications

The Hydrographer of the Navy publishes biennially and sells a "Catalogue of Admiralty Charts and Other Hydrographic Publications" (NP 131), depicting British Admiralty chart coverage worldwide. It includes Sailing Directions, Lists of Lights, and a list of Sales Agents. Requests for purchase may be sent to:

UK Hydrographic Office  
Admiralty Way  
Taunton, Somerset TAI 2DN  
United Kingdom  
Telephone ..... 44-1823-337-900  
Fax ..... 44-1823-284-077  
E-mail: ..... [hydro@hydro.gov.uk](mailto:hydro@hydro.gov.uk)  
Internet: ..... <http://www.hydro.gov.uk>

### U.S. Naval Oceanographic Publications

U.S. Naval Oceanographic (NAVOCEANO) Publications (including digitized versions) such as oceanographic glossaries, atlases, and a Catalog of Naval Oceanographic Publications (NO Pub RP51), dated 1991, are available from:

National Technical Information Service  
U.S. Department of Commerce  
5285 Port Royal Road  
Springfield, Virginia 22161-2103  
Telephone ..... 703-605-6000 or 1-800-553-6847  
Fax ..... 703-605-6900  
E-mail: ..... [info@ntis.gov](mailto:info@ntis.gov)  
Internet: ..... <http://www.ntis.gov>  
NAVOCEANO Maury Library  
Telephone ..... 228-688-4597/4017  
Fax ..... 228-688-4191  
E-mail ..... [Breyerj@navo.navy.mil](mailto:Breyerj@navo.navy.mil)  
Internet: ..... <http://www.navo.navy.mil>





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